

List of All Chemicals

P Agastache foeniculum (Lamiaceae)

Common name(s)

Giant Hyssop

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Plant Part | Low PPM | High PPM | StdDev | *Reference |
|------------------------------------|---|---------|----------|--------|---|
| (Z)-BETA-OCIMENE | Plant | 3.0 | 120.0 | 1.41 | * |
| 3-OCTANOL | Plant | 3.0 | 35.0 | -0.58 | * |
| Activities (2) | | | | | |
| FLavor FEMA | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| 3-OCTANONE | Plant | -- | 30.0 | -0.4 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of Agastache foeniculum, A Potential Source of Methyl Chavicol. J. Ess. Oil Res., 4: 295-299. |
| 4-CADENEN-OL | Plant | -- | 5.0 | | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of Agastache foeniculum, A Potential Source of Methyl Chavicol. J. Ess. Oil Res., 4: 295-299. |
| ACACETIN | Leaf | -- | -- | | Jim Duke's personal files. |
| Activities (16) | | | | | |
| Aldose-Reductase-Inhibitor | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Allergenic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antiaflatoxin IC50=7.25 uM | | | | | |
| Antiaflatoxin IC50=2.06 ppm | | | | | |
| Antiallergic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Antihistaminic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antimalarial IC50=4.2-12.6 ug/ml | | | | | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. | | | | |
| Aromatase-Inhibitor IC12=1 uM/l | Journal of Medicinal Food 2: 235.1999. | | | | |
| Hepatoprotective IC50=7.25 uM | | | | | |
| Hepatoprotective IC50=2.06 ppm | | | | | |
| Iodothyronine-Deiodinase-Inhibitor | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Mutagenic | | | | | |
| Plasmodicide IC50=4.2-12.6 ug/ml | | | | | |
| Protisticide IC50=4.2-12.6 ug/ml | | | | | |
| Topoisomerase-I-Inhibitor | Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. Toxicol Ind Health, 14: 223-237. | | | | |
| ACACETIN | Inflorescence | -- | -- | | Jim Duke's personal files. |
| Activities (16) | | | | | |
| Aldose-Reductase-Inhibitor | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Allergenic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antiaflatoxin IC50=7.25 uM | | | | | |
| Antiaflatoxin IC50=2.06 ppm | | | | | |
| Antiallergic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Antihistaminic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antimalarial IC50=4.2-12.6 ug/ml | | | | | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. | | | | |

uM/l

Hepatoprotective IC50=7.25
uM

Hepatoprotective IC50=2.06
ppm

Iodothyronine-Deiodinase-Inhibitor Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, Londón. 791 pp.

Mutagenic

Plasmodicide IC50=4.2-12.6
ug/ml

Protisticide IC50=4.2-12.6
ug/ml

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

| | | | | | |
|--------------|-------|-----|------|-------|---|
| ALPHA-PINENE | Plant | 1.0 | 35.0 | -0.46 | * |
|--------------|-------|-----|------|-------|---|

Activities (28)

Allelochemical

Allergenic

Antiacne

Antibacterial

Antifeedant

Antiflu Economic & Medicinal Plant Research, 5: 195.

Antiinflammatory 500 mg/kg

Antipneumonic

Antiseptic

Antispasmodic

Antistaphylococcic

Antiviral Economic & Medicinal Plant Research, 5: 195.

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Coleoptophile

Expectorant Michael Castleman 1991. The Healing Herbs. Rodale Press, Emmaus, PA 436 pp.

FLavor FEMA 15-150

Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Herbicide IC50=30 uM

Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY.

Insecticide 0.82 uM/fly

Insectifuge 50 ppm

Insectiphile J. Stored. Prod. Res., 22:141, 1986.

Irritant Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

P450-2B1-Inhibitor IC50=0.087

uM

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Pesticide

Sedative Lawrence Review of Natural Products, Jun-90.

Spasmogenic

Tranquilizer Lawrence Review of Natural Products, Jun-90.

Transdermal

| | | | | |
|--------------|-------|----|-----|---|
| ANISALDEHYDE | Plant | -- | 1.0 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of <i>Agastache foeniculum</i> , A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. |
|--------------|-------|----|-----|---|

Activities (7)

Antimutagenic Economic & Medicinal Plant Research, 6: 235.

Fungicide

Insecticide Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Pesticide

Tyrosinase-Inhibitor ID50=320 uM

Tyrosinase-Inhibitor ID50=0.32 mM

Tyrosinase-Inhibitor ID50=380-970 uM

| | | | | | |
|--------------|-------|-----|-------|------|---|
| BENZALDEHYDE | Plant | 1.0 | 135.0 | 0.05 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of <i>Agastache foeniculum</i> , A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. |
|--------------|-------|-----|-------|------|---|

Activities (24)

Allergenic

Anesthetic

Antibacterial

Anticancer

| | |
|------------------------------------|--|
| Antipeptic | |
| Antiseptic | |
| Antispasmodic | |
| Antitumor | |
| Candidicide | |
| FLavor FEMA 150-800 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Immunostimulant | |
| Insecticide | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Insectifuge 50 ppm | J. Stored. Prod. Res., 22:141, 1986. |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Theapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Narcotic | Merck 11th Edition |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g.Buchbauer et al,1993.Theapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide LD100=5 mg/g | |
| Tyrosinase-Inhibitor ID50=820 uM | |
| Tyrosinase-Inhibitor ID50=87 ug/ml | |
| Tyrosinase-Inhibitor ID50=0.82 mM | |
| Tyrosinase-Inhibitor ID50=830 uM | |

| | | | | | |
|-------------|-------|-----|------|-------|---|
| BETA-PINENE | Plant | 2.0 | 25.0 | -0.41 | * |
|-------------|-------|-----|------|-------|---|

Activities (13)

| | |
|--------------------|--|
| Allergenic | |
| Antiinflammatory | |
| Antiseptic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antispasmodic | |
| Candidicide | |
| FLavor FEMA 15-600 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Herbicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Spasmogenic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Transdermal | |

| | | | | |
|---------------|-------|-----|-------|---|
| BETA-SABININE | Plant | 1.0 | 125.0 | * |
|---------------|-------|-----|-------|---|

| | | | | | |
|------------|-------|-----|------|-------|---|
| CAMPHENENE | Plant | 1.0 | 35.0 | -0.55 | * |
|------------|-------|-----|------|-------|---|

Activities (9)

| | |
|----------------------|---|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antilithic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antioxidant | Jim Duke's personal files. |
| Expectorant | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| FLavor FEMA 15-175 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Pesticide | |
| Spasmogenic | Fitoterapia No.59-1984. |

| | | | | | |
|---------------|-------|-----|-------|-------|---|
| CARYOPHYLLENE | Plant | 8.0 | 100.0 | -0.44 | * |
|---------------|-------|-----|-------|-------|---|

Activities (31)

| |
|----------------------------|
| Aldose-Reductase-Inhibitor |
|----------------------------|

| | |
|------------------------------------|---|
| Analgesic | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Antiacne | |
| Antiasthmatic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antibacterial | |
| Anticariogenic MIC=>1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against <i>Streptococcus mutans</i> . <i>J. Agric. Food Chem.</i> 41: 1102-1105. |
| Antidermatitic | |
| Antiedemic | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (<i>Lavandula latifolia</i> Vill.)2). <i>Chem. Pharm. Bull.</i> 38(8): 2283-2284, 1990. |
| Antifeedant 500 ppm | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Antiinflammatory IC50=100 uM | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (<i>Lavandula latifolia</i> Vill.)2). <i>Chem. Pharm. Bull.</i> 38(8): 2283-2284, 1990. |
| Antileishmanic | |
| Antionychyotic | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Antiproliferant | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic | |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (<i>Eugenia caryophyllata</i>) As Potential Anticarcinogenic Agents. <i>Journal of Natural Products</i> 55(7): 999-1003, 1992. |
| Antiulcer | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Candidicide | |
| Flavor FEMA 20- 200 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Gastroprotective | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Insectifuge | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Larvicide | |
| Mosquitocide | |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Sedative | |
| Termitifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |

CIS-OCIMENE Plant 3.0 35.0 -0.39 *

Activities (3)

| | |
|--------------------|---|
| Antibacterial | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antistaphylococcic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Fungicide | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |

COSMOSIIN Leaf -- -- Jim Duke's personal files.

Activities (4)

| | |
|--|---|
| Aldose-Reductase-Inhibitor IC40=1 uM | Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888. |
| Aldose-Reductase-Inhibitor IC99=10 uM | Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888. |
| Antibacterial MIC=500 ug/ml | Planta Medica, 57: A43, 1991. |
| Candidicide MIC=500 ug/ml | Planta Medica, 57: A43, 1991. |

COSMOSIIN Inflorescence -- -- Jim Duke's personal files.

Activities (4)

| | |
|--|---|
| Aldose-Reductase-Inhibitor IC40=1 uM | Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888. |
| Aldose-Reductase-Inhibitor IC99=10 uM | Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888. |
| Antibacterial MIC=500 ug/ml | Planta Medica, 57: A43, 1991. |
| Candidicide MIC=500 ug/ml | Planta Medica, 57: A43, 1991. |

CYNAROSIDE Leaf -- -- Jim Duke's personal files.

Activities (3)

| | |
|--|---|
| Aldose-Reductase-Inhibitor IC50=0.99 uM rat (strong activity) | Yoshikawa, M., et al. 1999. Medicinal Flowers. I. Aldose Reductase Inhibitors and Three New Eudesmane-Type Sesquiterpenes, Kikkanols A, B, and C, From the Flowers of Chrysanthemum indicum L. <i>Chem Pharm Bull</i> , 47(3): 340-345. |
| Calcium-Antagonist IC50=1.2 uM | |

Hypocholesterolemic

| | | | | | |
|--|---|----------|----------|--|----------------------------|
| CYNAROSIDE | Inflorescence | -- | -- | Jim Duke's personal files. | |
| Activities (3) | | | | | |
| Aldose-Reductase-Inhibitor IC50=0.99 uM rat (strong activity) | Yoshikawa, M., et al. 1999. Medicinal Flowers. I. Aldose Reductase Inhibitors and Three New Eudesmane-Type Sesquiterpenes, Kikkanols A, B, and C, From the Flowers of Chrysanthemum indicum L. <i>Chem Pharm Bull</i> , 47(3): 340-345. | | | | |
| Calcium-Antagonist IC50=1.2 uM rbt | | | | | |
| Hypocholesterolemic | | | | | |
| D-LIMONENE | Plant | -- | -- | Jim Duke's personal files. | |
| Activities (19) | | | | | |
| Antiacylcholinesterase IC22=1.2 mM | | | | | |
| Anticancer (Breast) 8,000 mg/kg | | | | | |
| Anticancer (Gastric) | | | | | |
| Antimelanomic IC50=450 uM/l | | | | | |
| Antitumor (Breast) 8,000 mg/kg | | | | | |
| Antitumor (Gastric) | | | | | |
| Antitumor-Promoter | | | | | |
| Apoptotic 8,000 mg/kg | | | | | |
| Cancer-Preventive | | | | | |
| Chemopreventive | | | | | |
| Differentiator 8,000 mg/kg | | | | | |
| FLavor FEMA 30-2,300 | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | |
| Hypocholesterolemic | | | | | |
| Insecticide | | | | | |
| Insectifuge | | | | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | |
| Litholytic | | | | Martindale's 28th | |
| Nephrotoxic | | | | | |
| P450-2B1-Inhibitor IC50=0.19 uM | | | | | |
| Pesticide | | | | | |
| DIMETHYL-HEXANAL | Plant | 1.0 | 60.0 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of Agastache foeniculum, A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. | |
| DIOSMETIN-7-O-BETA-D-GLUCOSIDE | Leaf | -- | -- | Jim Duke's personal files. | |
| DIOSMETIN-7-O-BETA-D-GLUCOSIDE | Inflorescence | -- | -- | Jim Duke's personal files. | |
| EO | Plant | 1000.0 | 12500.0 | 0.21 | * |
| ESTRAGOLE | Essential Oil | 820000.0 | 930000.0 | 0.88 | Jim Duke's personal files. |
| Activities (12) | | | | | |
| Antiaggregant IC50=320 uM | Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. <i>Phytotherapy Research</i> 4(3): 93, 1990. | | | | |
| Calcium-Antagonist IC50=257.6 uM gpg | | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Carcinogenic 4.4 uM/15 mos. scu mus | | | | | |
| DNA-Binder | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| FLavor FEMA 4-150 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Hepatocarcinogenic 0.23-0.46% diet/12 mos. | | | | | |
| Hypothermic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Insecticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | | |
| Mutagenic | | | | | |
| Perfumery | Merck 11th Edition | | | | |
| ESTRAGOLE | Plant | -- | -- | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | |
| Activities (12) | | | | | |
| Antiaggregant IC50=320 uM | Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. <i>Phytotherapy Research</i> 4(3): 93, 1990. | | | | |
| Calcium-Antagonist | | | | | |

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|--|--|
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carcinogenic 4.4 uM/15 mos. scu mus | |
| DNA-Binder | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 4-150 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hepatocarcinogenic 0.23-0.46% diet/12 mos. | |
| Hypothermic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insecticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Mutagenic | |
| Perfumery | Merck 11th Edition |

| | | | | | |
|----------------------|-------|------|--------|------|---|
| ETHYLDIMETHYLHEPTENE | Plant | 1.0 | 75.0 | | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of <i>Agastache foeniculum</i> , A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. |
| GERMACRENE-D | Plant | 25.0 | 2525.0 | 1.71 | * |

Activities (2)

Pesticide
Pheromone

| | | | | | |
|----------|-------|-----|------|-------|---|
| LIMONENE | Plant | 2.0 | 25.0 | -0.47 | * |
|----------|-------|-----|------|-------|---|

Activities (60)

| | |
|---------------------------------------|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Acaricide LC100=8 uM | |
| Allelochemic | |
| Allergenic 1/20th carene | |
| Antiacylcholinesterase IC22-26=1.2 mM | |
| Antiaideonomic | |
| Antialzheimeran? | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Antiasthmatic | |
| Antibacterial | Revista Itiliana Eppos, 12: 5, 1994. |
| Anticancer | |
| Antiesophagitic | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory | |
| Antilithic | |
| Antilymphomic | |
| Antimetastatic (Stomach) | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antioesity | |
| Antiseptic | |
| Antispasmodic ED50=0.197 mg/ml | Fitoterapia No.59-1984. |
| Antitumor | |
| Antitumor (Breast) | |
| Antitumor (Colon) | |
| Antitumor (Pancreas) | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) | |
| Antiviral | |
| Apoptotic | |
| Bronchoprotectant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidstat | |
| Chemopreventive | |
| Cholesterolytic | |
| Detoxicant | |
| Enterococontractant | J. Aromatherapy 4: 22. |
| Expectorant | |
| FLavor | |
| Fungiphilic | J. Agric. Food Chem. 43: 2283. |
| Fungistat | |
| GST-Inducer | |

| | | | | | |
|---|--|--|--|--|--|
| Histaminic | | | | | |
| Immunomodulator | | | | | |
| Insecticide 0.37 uM/fly | | | | | |
| Insectifuge | | | | | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Interleukin-6-Inhibitor | | | | | |
| Irritant | | | | | |
| Lipolytic | | | | | |
| Myorelaxant 50 mg/kg | | | | | |
| NO-Genic | | | | | |
| Nematicide IC=100 ug/ml | | | | | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet) | | | | | |
| Ozone-Scavenger | | | | | |
| P450-Inducer | | | | | |
| Peristaltic | | | | | |
| Pesticide | | | | | |
| Photosensitizer | | | | | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Sedative ED=1-32 mg/kg | | | | | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Transdermal | | | | | |

| | | | | | |
|-----------------|-------|-------|---------|-------|---|
| LINALOL | Plant | -- | 15.0 | -0.43 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of <i>Agastache foeniculum</i> , A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. |
| METHYL-CHAVICOL | Plant | 555.0 | 12160.0 | 1.55 | * |

Activities (6)

| | | | | | |
|--------------------------------|--|--|--|--|---|
| Calcium-Antagonist IC50=258 uM | | | | | |
| DNA-Binder | | | | | |
| Hepatocarcinogenic | | | | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Hypothermic | | | | | |
| Insecticide | | | | | |
| Pesticide | | | | | |

| | | | | | |
|---------|-------|----|------|-------|---|
| MYRCENE | Plant | -- | 30.0 | -0.44 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of <i>Agastache foeniculum</i> , A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. |
|---------|-------|----|------|-------|---|

Activities (22)

| | | | | | |
|--------------------------------------|--|--|--|--|--|
| ACE-Inhibitor 100 ug/ml | | | | | |
| Aldose-Reductase-Inhibitor 100 ug/ml | | | | | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allergenic | | | | | |
| Analgesic | | | | | Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. |
| Antibacterial | | | | | |
| Anticonvulsant | | | | | |
| Antimutagenic | | | | | Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. |
| Antinitrosaminic | | | | | |
| Antinociceptive 10-20 mg/kg ipr mus | | | | | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. <i>J. Pharm. Pharmacol.</i> 42: 877-878, 1990. |
| Antinociceptive 20-40 mg/kg scu mus | | | | | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. <i>J. Pharm. Pharmacol.</i> 42: 877-878, 1990. |
| Antioxidant | | | | | Jim Duke's personal files. |
| Antispasmodic | | | | | Jim Duke's personal files. |
| Chemopreventive | | | | | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| FLavor FEMA 0.5-9 | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | | | | | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypothermic | | | | | |
| Insectifuge | | | | | |
| Irritant | | | | | Zebowitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Myorelaxant 100-200 mg/kg | | | | | |
| P450-2B1-Inhibitor IC50=0.14 uM | | | | | |
| Perfumery | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | | | | | |

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|-----------------------------|-------|----|----|--|----------------------------|
| PARA-METHOXY CINNAMALDEHYDE | Plant | -- | -- | | Jim Duke's personal files. |
|-----------------------------|-------|----|----|--|----------------------------|

| | | | | | | |
|----------------|-------|----|------|----------------------------|---|--|
| TILIANIN | Leaf | -- | -- | Jim Duke's personal files. | | |
| TRANS-ANETHOLE | Plant | -- | 20.0 | -0.46 | Mazza, G. and Kiehn, F.A. 1992. Essential Oil of <i>Agastache foeniculum</i> , A Potential Source of Methyl Chavicol. <i>J. Ess. Oil Res.</i> , 4: 295-299. | |

Activities (8)

Analgesic 10-100 ug/ml

Anesthetic 10-100 ug/ml

Antigenotoxic 40-400 mg/kg orl mus

Antioxidant

Antiradicular

Calcium-Antagonist IC50=75.2 uM gpg (weak activity)

FLavor FEMA 1,250-3,150

Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Sweetener 13 x sucrose

| | | | | | | |
|---------------|-------|------|--------|------|---|--|
| TRANS-OCIMENE | Plant | 15.0 | 1150.0 | 2.91 | * | |
|---------------|-------|------|--------|------|---|--|